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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,953	01/17/2002	Darren D. Cofer	1100.1144101 (H0002091)	3315
128	7590 11/12/2003		EXAMINER	
1101121112	LL INTERNATIONA	GONZALEZ, MADELINE		
101 COLUMBIA ROAD P O BOX 2245 MORRISTOWN, NJ 07962-2245			ART UNIT	PAPER NUMBER
			2859	

DATE MAILED: 11/12/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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, ·	Application No.	Applicant(s)				
	10/052,953	COFER ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Madeline Gonzalez	2859				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be tin ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>08 S</u>	September 2003.					
2a)⊠ This action is FINAL. 2b)□ This	action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 5)⊠ Claim(s) 11-21,23 and 24 is/are allowed. 6)⊠ Claim(s) 1-10 is/are rejected. 7)⊠ Claim(s) 22 is/are objected to. 	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) <u>11-21,23 and 24</u> is/are allowed. Claim(s) <u>1-10</u> is/are rejected.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on 20 May 2002 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	n)⊠ accepted or b)⊡ objected to e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. §§ 119 and 120						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal f	(PTO-413) Paper No(s) Patent Application (PTO-152)				

DETAILED ACTION

In response to applicant's amendment dated September 8, 2003

Claim Objections

- 1. Claim 22 is objected to because of the following informalities:
 - a) Claim 22: The claim recites the limitation "the method for comparing the interference bands" in lines 9-10. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3 and 6-10 are finally rejected under 35 U.S.C. 102(b) as being anticipated by Heifler (U.S. 5,980,123).

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Heifler discloses a system and method for detecting an object entering a monitored area, as shown in Fig. 1, the method including the steps of:

• illuminating the monitored area with a spotlight 14, said light from the spotlight 14 is considered a pattern;

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- capturing a live image of the monitored area, including the pattern, using a camera
 16;
- detecting an object entering the monitored area when a change is detected in the pattern in the live image;
- wherein the detecting step detects an object entering the monitored area when the change in the pattern exceeds a predetermined threshold, i.e., when the object enters a first field of view of an infrared sensor;
- capturing a reference image of the monitored area, including the pattern;
- comparing the reference image and the live image to detect a change in the pattern in the live image;
- wherein the reference image and the live image each inherently have a number of
 mask windows, and wherein the comparing step compares selected mask windows of
 the reference image to selected mask windows of the live image;
- wherein the comparing step compares the selected mask windows of the reference image and the live image inherently using one or more comparing algorithms; and
- performing a predefined action if the detecting step detects an object entering on of the selected mask windows.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the

claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

claims was commonly owned at the time any inventions covered therein were made absent any

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c)

and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 4 and 5 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over

Heifler (U.S. 5,980,123).

Heifler discloses all the subject matter claimed above in paragraph 3 with the exception

of the specific pattern.

With respect to the specific pattern: Heifler discloses a method for detecting an object

entering a monitored area including the step of illuminating the monitored area with a spotlight

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14, said light from the spotlight 14 is considered a pattern. The specific pattern claimed by applicant, i.e., static or dynamic patterns, absent any criticality, is considered to be nothing more than a choice of engineering skill, choice or design because the pattern claimed by Applicant and the pattern used by Heifler are well known alternate types of patterns which will perform the same function, if one is replaced with the other, of illuminating an area. Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide the system disclosed by Heifler with a static or dynamic pattern as an alternate manner of illuminating an area.

Allowable Subject Matter

- 7. Claims 11-21, 23 and 24 are allowed.
- Claim 22 would be allowable if rewritten or amended to overcome the objection(s) set 8. forth in this Office action.
- The following is a statement of reasons for the indication of allowable subject matter: 9.

Claim 11 is allowed because the prior art of record does not show or suggest a method for detecting an object entering a monitored area, the method including the steps of illuminating the monitored area with a first pattern, and creating moiré interference bands by imposing a second Application/Control Number: 10/052,953

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pattern shifted relative to the first pattern, in combination with the remaining limitations in the

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claim.

Claims 12-21 are allowed due to their dependency on claim 11.

Claim 23 is allowed because the prior art of record does not show or suggest a method for

detecting an object entering a monitored area, the method including the steps of calculating a

difference between brightness levels corresponding to light areas in a reference mask window

and the brightness levels corresponding to dark areas in the reference mask window, and

calculating a difference between brightness levels corresponding to light areas in a live mask

window and the brightness levels corresponding to dark areas in the live mask window, in

combination with the remaining limitations in the claim.

Claim 24 is allowed due to its dependency on claim 23.

Response to Arguments

Applicant's arguments with respect to claims 1-24 have been considered but are moot in 10.

view of the new ground(s) of rejection.

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Conclusion

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11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kuwano et al. ('320) and Tapp disclose monitoring systems. Hull-Allen discloses a system using moiré interferometry. Schuette discloses a system using a moiré-like pattern.

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Madeline Gonzalez whose telephone number is (703) 308-7004.

The examiner can normally be reached on Monday-Friday (8:00-5:30), alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F.F. Gutierrez can be reached on (703) 308-3875. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MG November 5, 2003

Diego F.F. Gutierrez Supervisory Patent Examiner Technology Center 2800